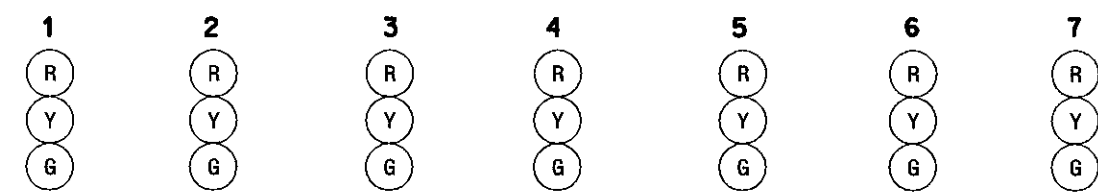


## PHASE CHART



PHASE 2 + 6	G	G	G	G	G	R	R	←
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
555	585448	1 EACH	FURNISH AND INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
556	585624	120 L.F.	FURNISH AND INSTALL 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
805	870167	250 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
805	805150	300 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
810	861116	520 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2-CONDUCTOR (NO 12 AWG)
810	800000	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500' LEAD-IN
810	800000	2 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1,000' LEAD-IN
805	870160	650 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
815	862102	560 L.F.	INSTALL ELECTRICAL HANDHOLE

## PROJECT DESCRIPTION

### GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT MD 7 AND INDUSTRIAL PARK ROAD IN BALTIMORE COUNTY. MD 7 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

### INTERSECTION OPERATION

THE SIGNAL WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH MD 7 APPROACHES RUNNING CONCURRENTLY AND INDUSTRIAL PARK ROAD RUNNING ALONE.

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

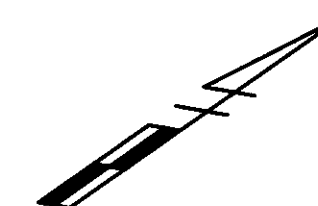
SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
813	900000	1 EACH	FOUR CHANNEL LOOP- DETECTOR AMPLIFIER (DELAY OUTPUT)
813	973023	27.25 S.F.	SHEET ALUMINUM SIGNS
		1 EACH	ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (24" x 51") POLE MOUNT:
			M3-2 SIGN (24" x 12") "EAST" (FOR INDEPENDENT USE)
			M1-6 SIGN(24" x 24") "MARYLAND 7" (FOR INDEPENDENT USE)
			M6-1 SIGN (21" x 15") "DIRECTIONAL - ARROW - HORIZONTAL"
		1 EACH	ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (36" x 75") POLE MOUNT:
			M3-4 SIGN (30" x 15") "WEST" (FOR INDEPENDENT USE)
			M1-6 SIGN(36" x 36") "MARYLAND 7" (FOR INDEPENDENT USE)
			M6-1 SIGN (30" x 24") "DIRECTIONAL - ARROW - HORIZONTAL"

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
810	861107	95 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
810	861108	1235 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
810	802501	565 L.F.	FURNISH AND INSTALL NO.6 STRANDED BARE COPPER GROUND WIRE
813	813015	27.25 S.F.	INSTALL OVERHEAD SIGN
814	860265	6 EACH	RELOCATE EXISTING SIGNAL HEAD
814	800000	3 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE VEHICULAR TRAFFIC SIGNAL HEAD SECTION
-----	800000	6 EACH	RELOCATE EXISTING SIGN ON MAST ARM
-----	800000	1 EACH	UNCOVER EXISTING SIGNAL HEAD
-----	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
-----	800000	1 EACH	CUT, CLEAN GALVANIZE AND CAP TRAFFIC SIGNAL MAST ARM
-----	816005	1 EACH	FURNISH AND INSTALL 250 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
-----	816010	1 EACH	FURNISH AND INSTALL 500 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
----	800000	2 EACH	RE-AIM VIDEO DETECTION CAMERA

## WIRING KEY



- A,B } - 2-CONDUCTOR TRAY CABLE (NO.12 A.W.G.)
- C,D,E } - 5-CONDUCTOR CABLE (NO.14 A.W.G.)
- G,H,I } - 7-CONDUCTOR CABLE (NO.14 A.W.G.)
- J } - 250' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET
- K } - 500' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET
- L,M } - MICRO-LOOP PROBE SET WITH 500' LEAD-IN
- N,O } - MICRO-LOOP PROBE SET WITH 1,000' LEAD-IN
- P - BARE COPPER STRANDED GROUND WIRE (NO.6 A.W.G.)
- ES - EXISTING OVERHEAD ELECTRICAL SERVICE
- + - EXISTING 3/4 IN. x 10 FT. GROUND ROD
- ML - MICRO-LOOP PROBE SET

## PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

MR. RANDALL SCOTT  
ASSISTANT DISTRICT  
ENGINEER - TRAFFIC  
PHONE: (410) 321-2781

MR. JOE McMAHON  
UTILITY ENGINEER  
PHONE: (410) 321-2780

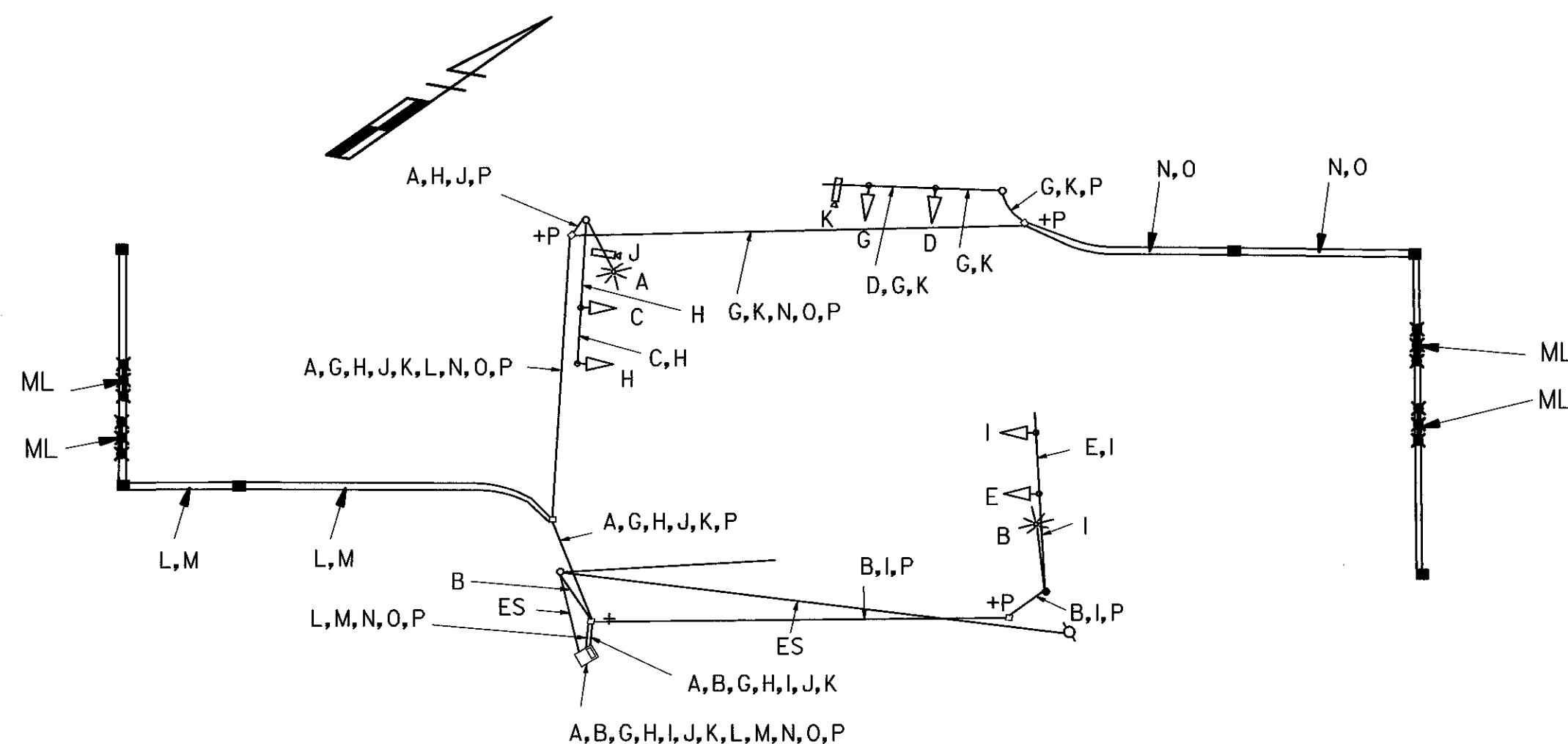
MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS ELECTRIC COMPANY  
MR. JOSEPH G. BUNCH  
INDUSTRIAL / COMMERCIAL SERVICES  
NEW BUSINESS CONSTRUCTION  
7317 PARKWAY DRIVE SOUTH  
PHONE: (410) 859-9030

MR. PHILIP HUMBERTSON  
SPECIAL PROJECTS  
PHONE: (410) 321-2851

## WIRING DIAGRAM



FINAL SIGNAL DESIGN

SS-14



HURST-BOSCHE ENGINEERS, INC.  
59 South Adams Road  
Baltimore, MD 21202  
410-883-3883

GEOMETRIC LEGEND
--- EXISTING GEOMETRICS
--- PROPOSED GEOMETRICS
UTILITY LEGEND
--- GAS MAIN
--- WATER MAIN
--- SEWER MAIN
--- ELECTRIC CABLES
--- STORM DRAIN
--- AERIAL CABLES
--- TELEPHONE CABLES

REVISIONS
THIS SHEET REPLACES SHEET 210
RED LINE REVISION 6 MARCH 2002
S.H.A. No. B4235176
NOVEMBER, 2000
MODIFY SIGNAL FOR NEW GEOMETRICS
S.H.A. No. B4235176



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
(Traffic Signal Plan)

MD 7 (Philadelphia Road) at  
Industrial Park Road

DRAWN BY: A.A.  
CHECKED BY: J.A.B.  
SCALE: SCALE: N/A  
DATE: DATE: 9-26-95

F.A.P. NO. N/A  
S.H.A. NO. BW813-802-412  
COUNTY: BALTIMORE  
LOG MILE: 03000706.62

TS NO. 3561A-G11  
T.I.M.S. NO. D770

SHEET NO. 210A OF 237